

IN THE CLAIMS:

22. (Currently Amended) An intermittent aerosol dispensing device for application of a product to skin of a human being, comprising

a cylinder (2) adapted to be secured atop an aerosol can, ~~and said cylinder (2)~~ communicating with a pressurized product, in said can, via a port (11);

a hollow piston (5) forming a nozzle (4) and adapted to reciprocate ~~within~~ with respect to said cylinder (2); and

a needle (6) adapted to intermittently engage against an inner surface of said hollow piston (5), said piston and needle defining therebetween

a pressure chamber (20) adapted to receive pressurized product, via said port (11), from said aerosol can, said pressurized product moving said piston (5) and needle (6) away from said port (11);

first spring means (8) tending, once differential pressure between said port (11) and said pressure chamber (20) has decreased, to urge said needle (6) away from said piston (5), thereby venting said pressure chamber (20) via said nozzle (4) to ambient air for a predetermined injection time interval, and

second spring means (7) tending, once differential pressure between said pressure chamber and ambient air has decreased, to urge said piston (5) against said needle (6) for a predetermined stop time interval;

wherein, by appropriate selection of a spring constant of said second spring means (7),

a ratio of an injection time to a stop time is set to 0.1 to 5.0, when a valve (11) is opened, in order to obtain a sufficient yet not excessive cooling and/or massage effect on the skin.